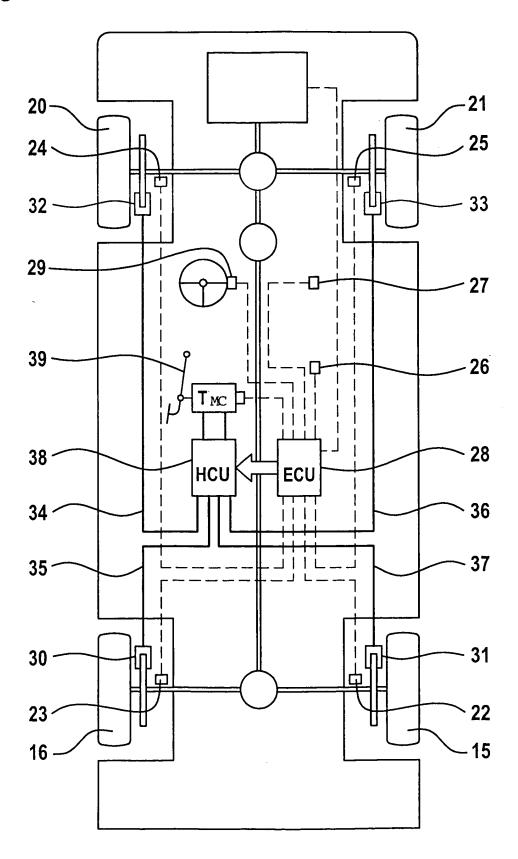
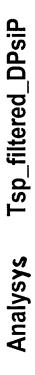
Fig. 1





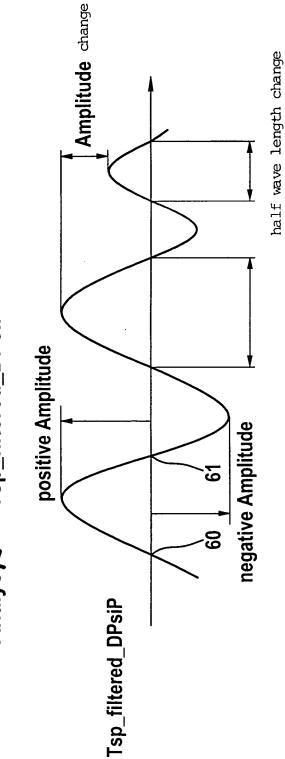


Fig. 2

• Amplitude exceeds allowable threshold?

Each half wave is analysed:

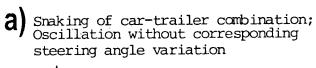
• Amplitude decreases too much?

? (=> Frequency~0.5 to 1.5 Hz)

• Is half wave length in the permitted range

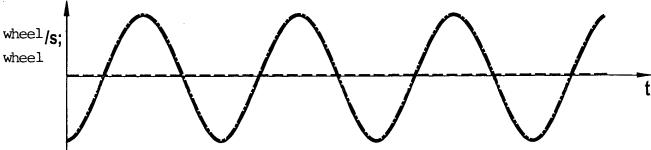
• Does half wave length change too much

Fig. 3

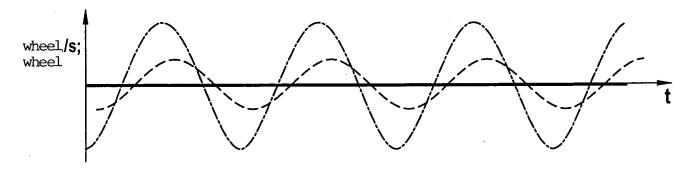


The Market Comment

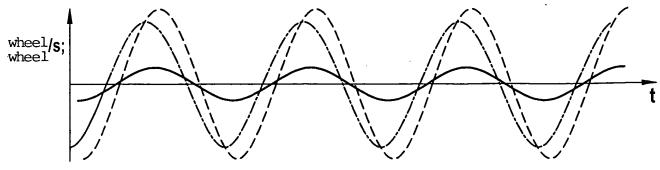
----- yaw rate
---- steering angle
---- difference between measured yaw rate and model
yaw rate



b) Slalom maneuver; oscillation is produced by steering angle variation alone; difference equals zero because vehicle is able to follow the model



C) Slalom maneuver (dynamic); oscillation is produced by steering angle variation alone; difference equals zero because vehicle is no longer able to follow the model



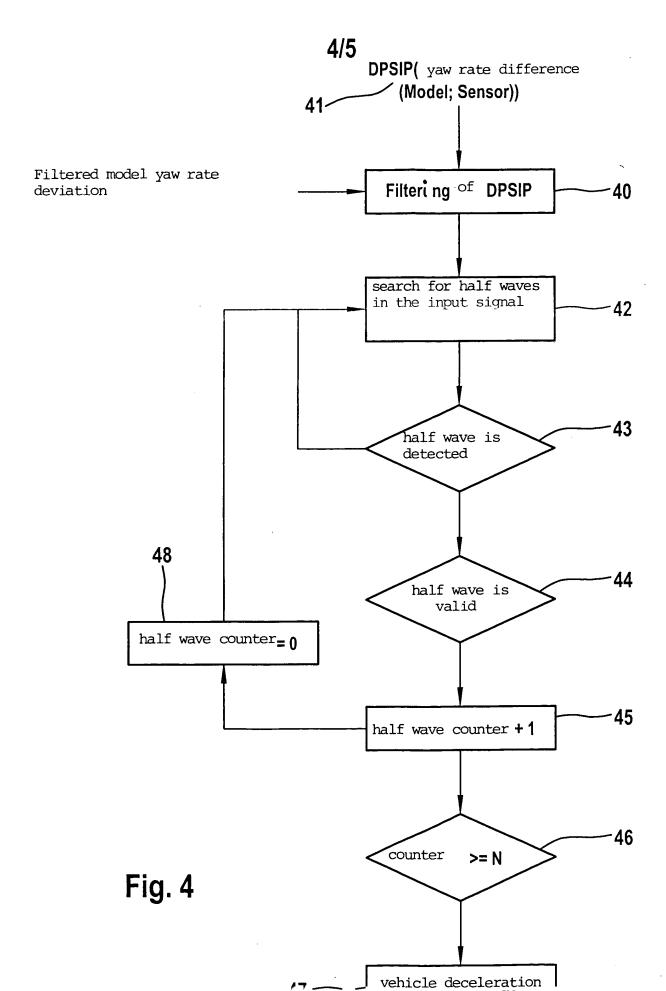
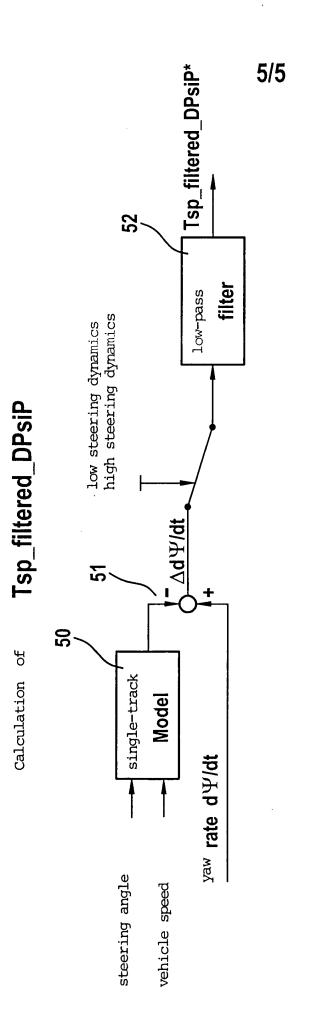


Fig. 5



i,

Deviation is calculated from the measured yaw rate and the model yaw rate.

Spurious detection is prevented at high steering dynamics.

Irrelevant frequency components

(-1.5Hz) are filtered out.

Tsp_filtered_DPsiP is the main detection signal.

* DPsiP: ∆dΨ/dt